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September 30, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

RE: Duke Energy Progress, LLC – Monthly Fuel Report
Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of August 2019.

Should you have any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Rebecca J. Dulin

Enclosure

C: Service List

Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item		August 2019
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$	166,409,889
	MWH sales:		
2	Total System Sales		6,446,541
3	Less intersystem sales		281,821
4	Total sales less intersystem sales		6,164,720
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)		2.6994
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)		2.4821
	Generation Mix (MWH):		
	Fossil (By Primary Fuel Type):		
7	Coal		1,171,130
8	Oil		3,285
9	Natural Gas - Combustion Turbine		220,866
10	Natural Gas - Combined Cycle		1,830,471
11	Biogas		758
12	Total Fossil		3,226,510
13	Nuclear		2,286,981
14	Hydro - Conventional		29,125
15	Solar Distributed Generation		24,528
16	Total MWH generation		5,567,144

Note: Detail amounts may not add to totals shown due to rounding.

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		August 2019
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	$	42,556,977
0501310 fuel oil consumed - steam		540,993
Total Steam Generation - Account 501		43,097,970
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		14,538,800
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		223,241
0547000 natural gas capacity - Combustion Turbine		7,148,236
0547000 natural gas consumed - Combined Cycle		32,198,969
0547000 natural gas capacity - Combined Cycle		14,057,849
0547106 biogas consumed - Combined Cycle		37,890
0547200 fuel oil consumed		106,397
Total Other Generation - Account 547		53,772,581
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		45,113,865
Fuel and fuel-related component of DERP purchases		21,231
PURPA purchased power capacity		13,417,476
DERP purchased power capacity		9,523
Total Purchased Power and Net Interchange - Account 555		58,562,089
Less:		
Fuel and fuel-related costs recovered through intersystem sales		5,459,943
Solar Integration Charge		1,262
Total Fuel Credits - Accounts 447/456		5,461,205
Total Costs Included in Base Fuel Component	$	164,510,235
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	2,120
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		1,943,714
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		31,277
Less emissions expense recovered through intersystem sales - Account 447		14,901
Total Costs Included in Environmental Component		1,899,655
Fuel and Fuel-related Costs excluding DERP incremental costs	$	166,409,889
DERP Incremental Costs		217,283
Total Fuel and Fuel-related Costs	$	166,627,172

Notes: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

AUGUST 2019

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
DE Carolinas - Emergency	$ 14,867	-	642	$ 9,069	$ 5,798
Broad River Energy, LLC.	13,227,492	11,344,674	33,835	1,882,818	-
City of Fayetteville	3,041,056	2,994,750	-	46,306	-
Haywood EMC	28,300	28,300	-	-	-
NCEMC	6,555,503	5,812,041	19,113	743,462	-
PJM Interconnection, LLC.	45,126	-	1,850	45,126	-
Southern Company Services	4,486,935	1,719,900	102,753	2,767,035	-
DE Carolinas - Native Load Transfer	5,587,888	-	273,981	5,571,329	16,559
DE Carolinas - Native Load Transfer Benefit	443,273	-	-	443,273	-
Energy Imbalance	10,883		449	10,353	530
Generation Imbalance	23		20	14	9
	$ 33,441,346	**$ 21,899,665**	**432,643**	**$ 11,518,785**	**$ 22,896**
Act 236 PURPA Purchases					
Renewable Energy	$ 24,552,157	-	332,485	$ 24,552,157	-
DERP Net Metering Excess Generation	5,765	-	134	5,765	-
DERP Qualifying Facilities	24,989	-	411	24,989	-
Other Qualifying Facilities	22,460,393	-	309,183	22,460,393	-
	$ 47,043,304	**-**	**642,213**	**$ 47,043,304**	**-**
Total Purchased Power	**$ 80,484,650**	**$ 21,899,665**	**1,074,856**	**$ 58,562,089**	**$ 22,896**

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

AUGUST 2019

	Total	Capacity	Non-capacity		
Sales	$	$	mWh	Fuel $	Non-fuel $
Market Based:					
NCEMC Purchase Power Agreement	$ 976,699	$ 652,501	10,246	$ 236,202	$ 87,996
PJM Interconnection, LLC.	124,389	-	3,100	80,915	43,474
Other:					
DE Carolinas - Native Load Transfer Benefit	$ 181,580	-	-	$ 181,580	-
DE Carolinas - Native Load Transfer	5,266,350	-	268,430	5,006,829	$ 259,521
Generation Imbalance	635	-	45	604	30
Total Intersystem Sales	**$ 6,549,653**	**$ 652,501**	**281,821**	**$ 5,506,130**	**$ 391,021**

* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2019

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Line No.			Residential Non-Conservation Discount	Residential Conservation Discount	Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input							6,164,720,271
2	DERP Net Metered kWh generation	Input							2,451,233
3	Adjusted System kWh sales	L1 + L2							6,167,171,504
4	Actual S.C. Retail kWh sales	Input	179,814,376	31,009,563	210,823,939	31,239,904	365,753,234	6,465,337	614,282,414
5	DERP Net Metered kWh generation	Input			1,113,262	25,660	1,312,311		2,451,233
6	Adjusted S.C. Retail kWh sales	L4 + L5			211,937,201	31,265,564	367,065,545	6,465,337	616,733,647
7	Actual S.C. Demand units (kw)	L32 / 31b *100					678,944		
	Base fuel component of recovery - non-capacity								
8	Incurred System base fuel - non-capacity expense	Input							$129,855,926
9	Eliminate avoided fuel benefit of S.C. net metering	Input							$78,704
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9							$129,934,630
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100							2.107
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100			$4,465,253	$658,727	$7,733,614	$136,217	$12,993,811
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input			(47,937)	(5,010)	(25,757)	$0	($78,704)
14	S.C. Retail portion of incurred system expense	L12 + L13			$4,417,316	$653,717	$7,707,857	$136,217	$12,915,107
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.091	1.987	2.076	2.076	2.076	2.076	2.076
	Rate Changes:								
	15a New approved rates	Input	2.090	1.986	2.075	2.075	2.075	2.075	
	15b Ratios of days to rate	Input	99.51%	99.51%	99.51%	99.51%	99.51%	99.51%	
	15c Prior approved rates	Input	2.384	2.265	2.366	2.366	2.366	2.366	
	15d Ratio of days to rate	Input	0.49%	0.49%	0.49%	0.49%	0.49%	0.49%	
	15e Total prorated ¢/KWH	(L15a*L15b) + (L15c * L15d)	2.091	1.987	2.076	2.076	2.076	2.076	2.076
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	$3,760,711	$616,119	$4,376,830	$648,673	$7,594,595	$134,248	$12,754,346
17	DERP NEM incentive - fuel component	Input			($10,496)	($1,097)	($5,640)	$0	($17,233)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17			$4,366,334	$647,576	$7,588,955	$134,248	$12,737,113
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14			$50,982	$6,141	$118,902	$1,969	$177,994
20	Adjustment	Input							
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20			$50,982	$6,141	$118,902	$1,969	$177,994
	Base fuel component of recovery - capacity								
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100			0.997	0.703			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100					166		
23	Incurred S.C. base fuel - capacity expense	Input			$2,101,345	$219,610	$1,129,103		$3,450,058
24a	Billed base fuel - capacity rates by class (¢/kWh) - Note 2	Input	0.697	0.662	0.692	0.522			
	Rate Changes:								
	24a.1 New approved rates	Input	0.697	0.662	0.692	0.522			
	24a.2 Ratios of days to rate	Input	99.51%	99.51%	99.51%	99.51%			
	24a.3 Prior approved rates	Input	0.681	0.647	0.676	0.426			
	24a.4 Ratio of days to rate	Input	0.49%	0.49%	0.49%	0.49%			
	24a.5 Total prorated ¢/KWH	(L24a.1*L24a.2) + (L24a.3 * L24a.4)	0.697	0.662	0.692	0.522			
24b	Billed base fuel - capacity rate (¢/kW)	Input					92		
	Rate Changes:								
	24b.1 New approved rates	Input					92		
	24b.2 Ratios of days to rate	Input					99.51%		
	24b.3 Prior approved rates	Input					88		
	24b.4 Ratio of days to rate	Input					0.49%		
	24b.5 Total prorated ¢/KWH	(L24b.1*L24b.2) + (L24b.3 * L24b.4)					92		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	$1,253,165	$205,307	$1,458,472	$162,925	$ 622,701	$0	$2,244,098
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23			$642,873	$56,685	$506,402	$0	$1,205,960
27	Adjustment	Input							
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27			$642,873	$56,685	$506,402	$0	$1,205,960

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2019

Environmental component of recovery										
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100			0.055	0.039				
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100					9			
30	Incurred S.C. environmental expense	Input			$115,292	$12,049	$61,949			$189,290
31a	Billed environmental rates by class (¢/kWh) - Note 3	Input	0.075	0.071	0.074	0.057				
	Rate Changes:									
	31a.1 New approved rates	Input	0.075	0.071	0.074	0.057				
	31a.2 Ratios of days to rate	Input	99.51%	99.51%	99.51%	99.51%				
	31a.3 Prior approved rates	Input	0.019	0.018	0.019	0.008				
	31a.4 Ratio of days to rate	Input	0.49%	0.49%	0.49%	0.49%				
	31a.5 Total prorated ¢/KWH	(L31a.1*L31a.2) + (L31a.3 * L31a.4)	0.075	0.071	0.074	0.057				
31b	Billed environmental rate (¢/kW)	Input					10			
	Rate Changes:									
	31b.1 New approved rates	Input					10			
	31b.2 Ratios of days to rate	Input					99.51%			
	31b.3 Prior approved rates	Input					1			
	31b.4 Ratio of days to rate	Input					0.49%			
	31b.5 Total prorated ¢/KWH	(L31b.1*L31b.2) + (L31b.3 * L31b.4)					10			
32	Billed S.C. environmental revenue	L31a * L4 /100	$134,367	$22,013	$156,380	$17,732	$ 67,595			$241,707
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30			($41,088)	($5,683)	($5,646)	$0		($52,417)
34	Adjustment	Input								$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34			($41,088)	($5,683)	($5,646)	$0		($52,417)
Distributed Energy Resource Program component of recovery: avoided costs										
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100			0.001	0.001				
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100					0.148			
37	Incurred S.C. DERP avoided cost expense	Input			$1,867	$195	$1,003			$3,065
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh) - Note 4	Input	0.003	0.003	0.003	0.003				
	Rate Changes:									
	38a.1 New approved rates	Input	0.003	0.003	0.003	0.003				
	38a.2 Ratios of days to rate	Input	99.51%	99.51%	99.51%	99.51%				
	38a.3 Prior approved rates	Input	0.003	0.003	0.003	0.001				
	38a.4 Ratio of days to rate	Input	0.49%	0.49%	0.49%	0.49%				
	38a.5 Total prorated ¢/KWH	(L38a.1*L38a.2) + (L38a.3 * L38a.4)	0.003	0.003	0.003	0.003				
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input					0			
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	$5,394	$884	$6,278	$934	$0			$7,212
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37			($4,411)	($739)	$1,003	$0		($4,147)
41	Adjustment	Input								
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41			($4,411)	($739)	$1,003	$0		($4,147)
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42			$648,356	$56,404	$620,661	$1,969		$1,327,390

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2019

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative			Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$13,424,397							
March 2019 - actual	13,142,207			(113,956)	(15,296)	(148,555)	(4,383)	($282,190)
April 2019 - actual	12,482,712			(178,213)	(25,629)	(447,263)	(8,390)	(659,495)
May 2019 - actual	12,391,437			(39,695)	(9,623)	(40,702)	(1,255)	(91,275)
June 2019 - actual	11,820,549			(204,177)	(33,436)	(326,075)	(7,200)	(570,888)
July 2019 - actual	11,960,164			30,794	2,958	104,254	1,609	139,615
_/5 August 2019 - actual	12,138,158			50,982	6,141	118,902	1,969	177,994
_/5 September 2019 - forecast	10,836,713			(443,018)	(61,089)	(778,903)	(18,435)	(1,301,445)
_/5 October 2019 - forecast	10,152,918			(208,221)	(33,951)	(431,333)	(10,290)	(683,795)
_/5 November 2019 - forecast	9,926,801			(67,740)	(11,192)	(143,741)	(3,444)	(226,117)
_/5 December 2019 - forecast	8,957,124			(350,470)	(43,139)	(562,593)	(13,475)	(969,677)
_/5 January 2020 - forecast	8,126,611			(338,116)	(34,710)	(447,007)	(10,680)	(830,513)
_/5 February 2020 - forecast	7,012,176			(449,048)	(47,035)	(603,928)	(14,424)	(1,114,435)
_/5 March 2020 - forecast	6,161,275			(315,215)	(38,779)	(485,292)	(11,615)	(850,901)
/5 April 2020 - forecast	4,011,765			(677,876)	(108,128)	(1,331,673)	(31,833)	(2,149,510)
/5 May 2020 - forecast	2,840,352			(331,416)	(61,776)	(760,065)	(18,156)	(1,171,413)
/5 June 2020 - forecast	$ 2,671,254			($53,326)	($8,490)	($104,793)	($2,489)	($169,098)

Year 2019-2020

Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative			Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$574,929							
March 2019 - actual	320,452			(158,950)	9,884	(105,411)	0	($254,477)
April 2019 - actual	800,238			332,772	51,683	95,331	0	479,786
May 2019 - actual	924,824			125,236	18,384	(19,034)	0	124,586
June 2019 - actual	844,129			(99,572)	(1,971)	20,848	0	(80,695)
July 2019 - actual	1,259,813			196,610	25,312	193,762	0	415,684
August 2019 - actual	2,465,773			642,873	56,685	506,402	0	1,205,960
_/5 September 2019 - forecast	2,183,069			(168,856)	(8,769)	(105,079)	0	(282,704)
_/5 October 2019 - forecast	2,380,450			180,206	6,049	11,126	0	197,381
/5 November 2019 - forecast	2,565,704			190,144	5,337	(10,227)	0	185,254
/5 December 2019 - forecast	2,216,845			(243,895)	(3,619)	(101,345)	0	(348,859)
/5 January 2020 - forecast	1,676,787			(574,205)	(6,512)	40,659	0	(540,058)
_/5 February 2020 - forecast	1,154,493			(506,119)	(3,085)	(13,090)	0	(522,294)
_/5 March 2020 - forecast	1,053,345			(108,014)	14,689	(7,823)	0	(101,148)
_/5 April 2020 - forecast	1,437,012			256,657	19,529	107,481	0	383,667
_/5 May 2020 - forecast	1,790,251			350,538	12,041	(9,340)	0	353,239
_/5 June 2020 - forecast	$ 1,767,571			$66,293	($565)	($88,408)	$0	($22,680)

Year 2019-2020

Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative			Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$199,207							
March 2019 - actual	275,991			40,490	5,702	30,592	0	$76,784
April 2019 - actual	324,903			24,694	3,770	20,448	0	48,912
May 2019 - actual	427,128			57,448	6,955	37,822	0	102,225
June 2019 - actual	515,935			46,245	6,142	36,420	0	88,807
July 2019 - actual	585,999			35,423	4,025	30,616	0	70,064
August 2019 - actual	533,582			(41,088)	(5,683)	(5,646)	0	(52,417)
/5 September 2019 - forecast	479,789			(31,749)	(2,586)	(19,458)	0	(53,793)
_/5 October 2019 - forecast	409,988			(35,480)	(5,289)	(29,032)	0	(69,801)
_/5 November 2019 - forecast	362,769			(19,873)	(3,838)	(23,508)	0	(47,219)
_/5 December 2019 - forecast	346,157			(12,901)	808	(4,519)	0	(16,612)
_/5 January 2020 - forecast	352,473			(22,042)	3,253	25,105	0	6,316
_/5 February 2020 - forecast	362,415			(13,629)	3,737	19,834	0	9,942
_/5 March 2020 - forecast	291,302			(47,707)	(2,388)	(21,018)	0	(71,113)
_/5 April 2020 - forecast	135,509			(91,875)	(10,585)	(53,333)	0	(155,793)
_/5 May 2020 - forecast	3,060			(65,502)	(9,693)	(57,254)	0	(132,449)
_/5 June 2020 - forecast	$ (70,030)			($35,263)	($4,701)	($33,126)	$0	($73,090)

Year 2019-2020

Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative			Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2019	$19,288							
March 2019 - actual	17,381			(2,803)	(12)	908	0	($1,907)
April 2019 - actual	21,608			1,112	352	2,763	0	4,227
May 2019 - actual	24,699			471	253	2,367	0	3,091
June 2019 - actual	28,250			252	306	2,993	0	3,551
July 2019 - actual	25,974			(3,344)	(290)	1,358	0	(2,276)
August 2019 - actual	21,827			(4,411)	(739)	1,003	0	(4,147)
/5 September 2019 - forecast	17,666			(2,832)	(460)	(869)	0	(4,161)
/5 October 2019 - forecast	15,388			(1,396)	(387)	(495)	0	(2,278)
_/5 November 2019 - forecast	13,298			(1,206)	(367)	(517)	0	(2,090)
_/5 December 2019 - forecast	9,455			(2,767)	(373)	(703)	0	(3,843)
_/5 January 2020 - forecast	12,213			416	92	2,250	0	2,758
_/5 February 2020 - forecast	15,231			784	116	2,118	0	3,018
_/5 March 2020 - forecast	19,215			1,935	135	1,914	0	3,984
_/5 April 2020 - forecast	25,443			3,649	170	2,409	0	6,228
_/5 May 2020 - forecast	31,954			4,259	157	2,095	0	6,511
_/5 June 2020 - forecast	$ 36,182			$2,612	$51	$1,565	$0	$4,228

Duke Energy Progress
(Over) / Under Recovery of Fuel Costs
August 2019

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	$132,342	$52,385	$32,556	$217,283
45	Billed S.C. DERP incremental rates by account ($/account)	Input	1.00	2.02	99.56	
46	Billed S.C. DERP incremental revenue	Input	$138,488	$65,211	$26,656	$230,355
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	($6,146)	($12,826)	$5,900	($13,072)
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	($6,146)	($12,826)	$5,900	($13,072)

	Year 2019-2020 Cumulative (over) / under recovery	Cumulative			Total
	Balance ending February 2019	$6,239			
	March 2019 - actual	107,362			$101,123
	April 2019 - actual	(62,019)			(169,381)
	May 2019 - actual	13,138			75,157
	June 2019 - actual	48,966			35,828
	July 2019 - actual	95,723			46,757
	August 2019 - actual	82,651			(13,072)
_/5	September 2019 - forecast	101,397			18,746
_/5	October 2019 - forecast	119,489			18,092
_/5	November 2019 - forecast	122,330			2,841
/5	December 2019 - forecast	117,297			(5,033)
/5	January 2020 - forecast	110,586			(6,711)
/5	February 2020 - forecast	107,141			(3,445)
_/5	March 2020 - forecast	129,154			22,013
_/5	April 2020 - forecast	170,795			41,641
_/5	May 2020 - forecast	214,914			44,119
_/5	June 2020 - forecast	$263,288			$48,374

Notes:
Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.
Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel non-capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of 2.090 and RECD 5% discount.
_/2 Total residential billed fuel capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .697 and RECD 5% discount.
_/3 Total residential billed environmental rate is a composite rate reflecting the 7/1/19 approved residential rate of .075 and RECD 5% discount.
_/4 Total residential billed DERP avoided capacity rate is a composite rate reflecting the 7/1/19 approved residential rate of .003 and RECD 5% discount.
_/5 Forecast amounts based on low end of range of expected fuel rates.

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CC/CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$39,232	-	$22,464,576	$4,196,286
Oil	-	-	-	-	-	-	189,050	253,099
Gas - CC	-	$15,846,461	$11,803,432	-	-	$4,327,723	-	-
Gas - CT	$24	-	1,328,257	-	-	(612,798)	-	-
Biogas	-	-	-	-	-	-	-	-
Total	$24	$15,846,461	$13,131,689	-	$39,232	$3,714,925	$22,653,626	$4,449,385
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	275.73	271.13
Oil	-	-	-	-	-	-	1,539.62	1,545.64
Gas - CC	-	336.74	394.74	-	-	2,949.11	-	-
Gas - CT	-	-	329.09	-	-	-	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	336.74	386.93	-	-	640.38	277.64	284.48
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$2,333,309	-	$33,936,100	$6,287,568
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	17,717	$772	261,433	261,842
Gas - CC	-	$15,846,461	$11,803,432	-	-	4,327,723	-	-
Gas - CT	$24	-	1,328,257	-	-	(612,798)	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	$1,166,694	-	-	-	-
Total	$24	$15,846,461	$13,131,689	$1,166,694	$2,351,026	$3,715,697	$34,197,533	$6,549,410
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	287.98	-	347.79	330.82
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	1,503.99	1,456.60	1,482.30	1,521.01
Gas - CC	-	336.74	394.74	-	-	2,949.11	-	-
Gas - CT	-	-	329.09	-	-	-	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	55.67	-	-	-	-
Weighted Average	-	336.74	386.93	55.67	289.74	640.45	349.83	341.50
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.62	-	3.53	4.31
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	18.23	15.44	15.20	19.80
Gas - CC	-	2.46	2.81	-	-	29.97	-	-
Gas - CT	-	-	3.33	-	-	-	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.65	-	-	-	-
Weighted Average	-	2.46	2.85	0.65	3.64	6.88	3.55	4.44
Burned MBTU's								
Coal	-	-	-	-	810,242	-	9,757,720	1,900,613
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	1,178	53	17,637	17,215
Gas - CC	-	4,705,843	2,990,207	-	-	146,747	-	-
Gas - CT	-	-	403,612	-	-	433,368	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	2,095,645	-	-	-	-
Total	-	4,705,843	3,393,819	2,095,645	811,420	580,168	9,775,357	1,917,828
Net Generation (mWh)								
Coal	-	-	-	-	64,542	-	960,556	146,032
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	-	-	-	-	97	5	1,720	1,323
Gas - CC	-	643,460	420,623	-	-	14,438	-	-
Gas - CT	(73)	-	39,889	-	-	39,596	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	179,951	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	(73)	643,460	460,512	179,951	64,639	54,039	962,276	147,355
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$186,296	$16,915
Limestone	-	-	-	-	$87,642	-	929,511	234,098
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	2,868	-	298,089	104,202
Urea	-	-	-	-	60,885	-	-	-
Total	-	-	-	-	$151,396	-	$1,413,895	$355,215

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME August 2019
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$26,700,094	$375,930,629
Oil	$25	-	-	-	-	-	442,174	18,058,115
Gas - CC	-	-	-	-	$14,279,202	-	46,256,818	558,168,664
Gas - CT	-	-	$46,564	$59,749	6,549,680	-	7,371,476	130,872,326
Biogas	-	-	-	-	150,789	-	150,789	1,466,007
Total	$25	-	$46,564	$59,749	$20,828,882	-	$80,921,351	$1,084,495,741
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	275.40	343.86
Oil	-	-	-	-	-	-	1,543.15	1,582.34
Gas - CC	-	-	-	-	302.72	-	368.29	413.14
Gas - CT	-	-	293.61	340.00	304.83	-	244.17	393.43
Biogas	-	-	-	-	2,826.94	-	2,826.94	2,888.85
Weighted Average	-	-	293.61	340.00	305.34	-	319.75	388.87
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$42,556,977	$333,230,071
Oil - CC	-	-	-	-	$265	-	265	2,074
Oil - Steam/CT	-	$10,336	-	$95,023	-	-	647,123	14,089,783
Gas - CC	-	-	-	-	14,279,202	-	46,256,818	558,168,664
Gas - CT	-	-	46,564	59,749	6,549,680	-	7,371,476	130,872,326
Biogas	-	-	-	-	150,789	-	150,789	1,466,007
Nuclear	$8,513,557	-	-	-	-	$4,858,549	14,538,800	177,759,647
Total	$8,513,557	10,336	$46,564	$154,772	20,979,936.00	$4,858,549	$111,522,248	$1,215,588,573
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	341.31	344.19
Oil - CC	-	-	-	-	1,656.25	-	1,656.25	1,659.20
Oil - Steam/CT	-	1,683.40	-	1,724.56	-	-	1,533.21	1,494.61
Gas - CC	-	-	-	-	302.72	-	368.29	413.14
Gas - CT	-	-	293.61	340.00	304.83	-	244.17	393.43
Biogas	-	-	-	-	2,826.94	-	2,826.94	2,888.85
Nuclear	57.44	-	-	-	-	64.95	59.59	60.65
Weighted Average	57.44	1,683.40	293.61	670.50	305.34	64.95	212.45	217.36
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.63	3.81
Oil - CC	-	-	-	-	26.50	-	26.50	17.28
Oil - Steam/CT	-	-	-	62.11	-	-	19.71	21.14
Gas - CC	-	-	-	-	1.90	-	2.53	2.97
Gas - CT	-	-	2.10	5.42	4.74	-	3.34	4.33
Biogas	-	-	-	-	19.90	-	19.90	19.71
Nuclear	0.61	-	-	-	-	0.68	0.64	0.63
Weighted Average	0.61	-	2.10	12.32	2.36	0.68	2.00	2.04
Burned MBTU's								
Coal	-	-	-	-	-	-	12,468,575	96,816,385
Oil - CC	-	-	-	-	16	-	16	125
Oil - Steam/CT	-	614	-	5,510	-	-	42,207	942,708
Gas - CC	-	-	-	-	4,717,010	-	12,559,807	135,102,591
Gas - CT	-	-	15,859	17,573	2,148,634	-	3,019,046	33,264,595
Biogas	-	-	-	-	5,334	-	5,334	50,747
Nuclear	14,821,242	-	-	-	-	7,480,814	24,397,701	293,078,828
Total	14,821,242	614	15,859	23,083	6,870,994	7,480,814	52,492,686	559,255,979
Net Generation (mWh)								
Coal	-	-	-	-	-	-	1,171,130	8,741,637
Oil - CC	-	-	-	-	1	-	1	12
Oil - Steam/CT	-	(14)	-	153	-	-	3,284	66,638
Gas - CC	-	-	-	-	751,950	-	1,830,471	18,762,442
Gas - CT	-	-	2,216	1,103	138,135	-	220,866	3,025,100
Biogas	-	-	-	-	758	-	758	7,439
Nuclear	1,396,042	-	-	-	-	710,988	2,286,981	28,070,750
Hydro (Total System)							29,125	796,307
Solar (Total System)							24,528	238,040
Total	1,396,042	(14)	2,216	1,256	890,844	710,988	5,567,144	59,708,366
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$23,208	-	$226,418	$1,848,605
Limestone	-	-	-	-	-	-	1,251,251	10,908,535
Re-emission Chemical	-	-	-	-	-	-	-	63,945
Sorbents	-	-	-	-	-	-	405,160	3,170,708
Urea	-	-	-	-	-	-	60,885	1,259,327
Total	-	-	-	-	$23,208	-	$1,943,714	$17,251,119

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
August 2019

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	88,505
Tons received during period	-	-	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	32,459
Ending balance	-	-	-	-	56,046
MBTUs per ton burned	-	-	-	-	24.96
Cost of ending inventory ($/ton)	-	-	-	-	71.88
Oil Data:					
Beginning balance	641,477	-	2,620,038	78,040	3,074,440
Gallons received during period	-	-	-	-	-
Miscellaneous use and adjustments	-	-	-	-	(2,900)
Gallons burned during period	-	-	-	-	8,761
Ending balance	641,477	-	2,620,038	78,040	3,062,779
Cost of ending inventory ($/gal)	2.23	-	2.80	2.40	2.11
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,555,728	3,285,772	-	562,463
MCF burned during period	-	4,555,728	3,285,772	-	562,463
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	13,307
Tons received during period	-	-	-	-	48
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	1,876
Ending balance	-	-	-	-	11,478
Cost of ending inventory ($/ton)	-	-	-	-	45.36

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
August 2019

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	1,027,360	493,312	-	-	-
Tons received during period	320,176	61,265	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	390,533	75,941	-	-	-
Ending balance	957,003	478,636	-	-	-
MBTUs per ton burned	24.99	25.03	-	-	-
Cost of ending inventory ($/ton)	86.87	82.80	-	-	-
Oil Data:					
Beginning balance	417,999	279,066	171,120	776,175	11,924,861
Gallons received during period	88,976	118,660	-	-	-
Miscellaneous use and adjustments	(14,862)	(2,027)	-	-	-
Gallons burned during period	127,419	124,899	12,501	4,369	-
Ending balance	364,694	270,800	158,619	771,806	11,924,861
Cost of ending inventory ($/gal)	2.05	2.10	2.40	2.37	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	15,343
MCF burned during period	-	-	-	-	15,343
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	79,870	22,800	-	-	-
Tons received during period	21,482	3,195	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	22,805	4,690	-	-	-
Ending balance	78,547	21,305	-	-	-
Cost of ending inventory ($/ton)	38.36	46.96	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
August 2019

Schedule 6
Page 3 of 3

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME August 2019
Coal Data:					
Beginning balance	-	-	-	1,609,177	1,029,265
Tons received during period	-	-	-	381,441	4,336,228
Inventory adjustments	-	-	-	-	(22,721)
Tons burned during period	-	-	-	498,933	3,851,087
Ending balance	-	-	-	1,491,685	1,491,685
MBTUs per ton burned	-	-	-	24.99	25.14
Cost of ending inventory ($/ton)	-	-	-	85.00	85.00
Oil Data:					
Beginning balance	10,402,992	8,174,227	287,238	38,847,673	37,295,843
Gallons received during period	-	-	-	207,636	8,269,778
Miscellaneous use and adjustments	-	-	-	(19,789)	(195,671)
Gallons burned during period	39,710	114	-	317,773	6,652,203
Ending balance	10,363,282	8,174,113	287,238	38,717,747	38,717,747
Cost of ending inventory ($/gal)	2.39	2.33	2.40	2.38	2.38
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	17,105	6,646,917	-	15,083,328	163,399,815
MCF burned during period	17,105	6,646,917	-	15,083,328	163,399,815
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	5,164	-	5,164	49,302
MCF burned during period	-	5,164	-	5,164	49,302
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	115,977	106,095
Tons received during period	-	-	-	24,724	243,738
Inventory adjustments	-	-	-	-	(2,054)
Tons consumed during period	-	-	-	29,371	236,449
Ending balance	-	-	-	111,330	111,330
Cost of ending inventory ($/ton)	-	-	-	40.73	40.73

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

AUGUST 2019

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	-	-
	CONTRACT	-	$ (13,750)	-
	FIXED TRANSPORTATION/ADJUSTMENTS	-	52,982	-
	TOTAL	-	39,232	-
MAYO	SPOT	23,169	1,465,864	$ 63.27
	CONTRACT	38,096	2,568,927	67.43
	FIXED TRANSPORTATION/ADJUSTMENTS	-	161,495	-
	TOTAL	61,265	4,196,286	68.49
ROXBORO	SPOT	115,710	8,568,027	74.05
	CONTRACT	204,466	13,347,107	65.28
	FIXED TRANSPORTATION/ADJUSTMENTS	-	549,442	-
	TOTAL	320,176	22,464,576	70.16
ALL PLANTS	SPOT	138,879	10,033,891	72.25
	CONTRACT	242,562	15,902,284	65.56
	FIXED TRANSPORTATION/ADJUSTMENTS	-	763,919	-
	TOTAL	381,441	$ 26,700,094	$ 70.00

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

AUGUST 2019

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	-	-	-	-
MAYO	7.34	8.65	12,631	2.67
ROXBORO	6.12	9.18	12,723	1.75

DUKE ENERGY PROGRESS
ANALYSIS OF OIL PURCHASED
AUGUST 2019

	MAYO	ROXBORO
VENDOR	Greensboro Tank Farm	Greensboro Tank Farm
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	118,660	88,976
TOTAL DELIVERED COST	$ 253,099	$ 189,050
DELIVERED COST/GALLON	$ 2.13	$ 2.12
BTU/GALLON	138,000	138,000

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 - August, 2019
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,615,787	938	92.68	93.72
Brunswick 2	6,770,011	932	82.92	85.75
Harris 1	8,586,580	953	102.82	99.99
Robinson 2	5,098,372	741	78.54	75.15

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 through August, 2019
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,403,352	225	71.20	79.49
Lee Energy Complex	1B	1,395,178	227	70.16	78.37
Lee Energy Complex	1C	1,414,479	228	70.82	77.99
Lee Energy Complex	ST1	2,813,985	379	84.76	90.64
Lee Energy Complex	Block Total	7,026,994	1,059	75.75	82.92
Richmond County CC	7	1,234,838	192	73.29	81.42
Richmond County CC	8	1,233,645	192	73.22	81.49
Richmond County CC	ST4	1,392,284	180	88.47	89.73
Richmond County CC	9	1,243,782	216	65.73	73.54
Richmond County CC	10	1,248,221	216	65.97	72.97
Richmond County CC	ST5	1,636,728	248	75.34	79.87
Richmond County CC	Block Total	7,989,498	1,244	73.30	79.47
Sutton Energy Complex	1A	1,218,877	224	62.12	75.17
Sutton Energy Complex	1B	1,193,403	224	60.82	71.42
Sutton Energy Complex	ST1	1,326,682	271	55.88	70.32
Sutton Energy Complex	Block Total	3,738,962	719	59.36	72.17

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 through August, 2019

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,265,301	746	19.36	66.78
Roxboro 2	1,468,363	673	24.91	77.99
Roxboro 3	1,576,441	698	25.78	59.41
Roxboro 4	2,350,290	711	37.74	72.91

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 through August, 2019
Other Cycling Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	792,047	192	47.09	95.25
Asheville 2	511,553	192	30.41	95.99
Roxboro 1	823,320	380	24.73	92.27

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 through August, 2019
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	158,429	370	75.46
Blewett CT	-326	68	98.27
Darlington CT	84,607	791	92.79
Richmond County CT	2,339,454	934	90.30
Sutton Fast Start CT	177,690	98	87.13
Wayne County CT	286,341	963	94.66
Weatherspoon CT	-135	164	92.16

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 through August, 2019
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	5,300	27.0	4.42
Marshall	-329	4.0	0.15
Tillery	308,746	84.0	92.66
Walters	482,590	113.0	68.84

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
September, 2018 through August, 2019
Pre-commercial Combined Cycle Units

Note: The Power Plant Performance Data reports are limited to capturing data beginning the first full month a station is in commercial operation. During the months specified below, Asheville CC produc pre-commercial generation.

Production Month	Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
August 2019	Asheville	5	14,438	n/a	n/a	n/a